

# ***Installation Manual***



Current 1 May 2013

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# Introduction

Exsulite™ Thermal Façade System installation manual and construction drawings are designed for fixing to both timber and steel frame construction as a total integrated light weight cavity walling system. Designed to deliver weatherproof external building envelope, cavity moisture management and providing high thermal R values.

The Exsulite™ Thermal Façade System is CodeMark certified comprising of Exsulite™ “M” Grade termite treated thermal EPS panels, breathable wall wrap, cavity spacers, fixing components, Exsulite™ P400 Basecoat with alkali resistance mesh and AcraTex® finishing weatherproof coating system which is designed & supplied by Dulux® AcraTex® and installed by Dulux® Exsulite™ Trained & Registered Installer.

Where an alternative Exsulite™ system specification is required this must be pre-sanctioned by the authorised Exsulite™ Technical Engineers. The amended ‘alternative project specific’ Exsulite™ System Specification must be secured prior to job commencement. Installations of any non standard or non approved Dulux® Exsulite™ system will be void of system warranty or claims.

## CodeMark™ Certified

Exsulite™ is CodeMark certified as a fully integrated Building System in compliance with the Building Code of Australia (Volume 2 Class 1 & Class 10 residential building.) Exsulite™ CodeMark certification provides building certifier’s confidence in total design and componentry and together with an Exsulite™ Certificate of Installation from an Exsulite™ Trained Installer confirms “as built” meets design.



CodeMark Certificate of Conformity confirms Exsulite™ as a Fully Integrated Façade System, complies with the relevant BCA clauses relating to :

- Structural integrity
- Energy Efficiency
- Weatherproofing
- Approved Componentry - No substitution

Integration of System Design, Components and Installation is delivered through Exsulite™ Trained Installers to ensure “as built” meets design specification.

System installation and job quality control documentation is project managed by a Dulux® trained Exsulite™ installer ensuring all jobs are installed in accordance with Exsulite™ Thermal Façade system specifications. The CodeMark™ Certificate of Conformity can be obtained on request.

## Fully integrated system by Dulux® AcraTex®



## Bushfire Attack Levels (BAL)



Exsulite™ has been tested for heat intensity and ember attack of bushfires in relation to AS 3959-2009 Construction of Buildings in Bushfire prone areas. Exsulite™ Thermal Façade System has passed AS 1530.8.1 and is approved for use in bushfire prone areas. For BAL system specifications & installation guidelines please call Dulux® AcraTex® or your representative for further information. EWFA Certificate of Assessment Number: SFC:27615

- Total design & supply by Dulux® AcraTex®
- Cavity System
- Weatherproof membrane topcoat
- Moisture management
- Suitable for bushfire prone areas
- CodeMark™ compliance
- High R-Value
- Installed by a Dulux® Exsulite™ trained Installer

# Thermal Facade System - Material Estimate Guide

|    |   |
|----|---|
| 1  | <p>(1.1) Exsulite™ EPS Thermal Panel size (2500mm x 1200mm) = 3m<sup>2</sup></p> <p>(1.2) Exsulite™ EPS Composite Panel size (2400mm x 1200mm) = 2.88m<sup>2</sup></p> <p>(1.2 ) Exsulite™ Cavity Spacer; "H" Grade EPS Spacer</p> <p>Dimensions: 15mm, 20mm, 25mm thick and 1.2m long.</p>   |
| 2  | <p>Job size (m<sup>2</sup>) of wall area to be installed</p> <p>(2.1) Calculate total wall area including openings = total m<sup>2</sup></p> <p>(2.2) Calculate all openings (doors &amp; windows) = total m<sup>2</sup></p> <p>(2.3) Take total wall area (m<sup>2</sup>) minus all openings (m<sup>2</sup>) = total (m<sup>2</sup>) area to be installed</p> <p>(2.4) Take (m<sup>2</sup>) of area to be installed plus 10%, divide by "3m<sup>2</sup>" to give you the number of Exsulite™ EPS Thermal Panel needed for the job.</p> <p>(2.4) Take (m<sup>2</sup>) of area to be installed plus 10%, divide by "2.88m<sup>2</sup>" to give you the number of Exsulite™ EPS Composite Panel needed for the job.</p> |
| 3  | Exsulite™ Fixing Screws & Fixing Disks - Allow a minimum 25 of each per Exsulite™ EPS Thermal & Composite Panel when for fixing at 600mm centres  |
| 4  | <p>Exsulite™ System Screws (Class 3-) as follows</p> <ul style="list-style-type: none"> <li>• 105mm screws for 60mm panel with 15mm Cavity Spacer</li> <li>• 130mm screws for 75mm panel with 25mm Cavity Spacer</li> <li>• 165mm screws for 100mm panel with 25mm Cavity Spacer</li> </ul>   |
| 5  | Exsulite™ Breathable Wall Wrap - Size 2.7m x 30m = 82m <sup>2</sup>   |
| 6  | Exsulite™ Starter Channel with weep holes & angles: Size 3 metre lengths = measure lineal meters to where they to be installed + 5% for wastage.  |
| 7  | Damp Course - Size: 300mm x 30m   |
| 8  | Foam Adhesive = 1 x 750ml per 30m <sup>2</sup>  |
| 9  | Flashing Tape for openings - size: 25m roll   |
| 10 | Selleys® Liquid Nails Fast - size: 300ml allow 1 tube per 12 lineal meters of angles  |
| 11 | Selleys® Flexiseal™ Sealant: size: 600ml  |
| 12 | Base Coats - P400 Basecoat: Size 20kg= Approximately 3m <sup>2</sup> @ 4mm thick plus wastage   |
| 13 | Exsulite™ Alkali Resistant 160gm-165gm Mesh: Size 50m x 1m=50m <sup>2</sup>   |
| 14 | Primer Coat – AcraTex® Green Render Sealer Size 15lt = 120m <sup>2</sup>  |
| 15 | Texture - Coat AcraTex® Coventry Course: Size 15lt = 12m <sup>2</sup>   |
| 16 | Protective Membrane Topcoat - AcraTex® Acraskin: Size 15lt = 60m <sup>2</sup>   |

Note: The above calculations can be used as a guide only and for project specific requirements please talk with your Dulux representative.

## Handling and Storage

Exsulite™ Thermal Panels and Fixing Components should be stored elevated, under cover and laid flat. Edges and corners are to be protected at all times. Prolonged exposure to direct sunlight and elements should be avoided.

# Exsulite™ Thermal Facade System

## Wall cladding solutions for certifiers & builders

AcraTex® - is a pioneer in the use of EIFS systems, designing and installing systems specifically for Insulation benefits as originally used in Europe. In recent years the use of Lightweight Cladding Systems, as Alternate Solutions in the BCA, has grown but proper system design and installation has not followed. The BCA requires appropriate design and installation controls to qualify any Alternate Solution and ultimate success requires a total systems approach integrating Design, Componentry & Installation. The Exsulite™ Thermal Facade system protects surveyors, builders and their Clients from the risks of mixed componentry and uncontrolled installation. Exsulite™ by Dulux® AcraTex® offers a Single Supply Source for the Total Facade System - Cladding to Weatherproofing Coating

## Exsulite™ EPS Panel

Exsulite™ Thermal M-Grade Panels can be cut to any desired thickness but dependant on application and required "R" value we recommend from a range of standard panels; 60mm, 75mm, 100mm. The sheet dimensions are 2500mm x 1200mm and are manufactured to meet the requirements of AS 1366.3 – 1992.

## How does a Cavity System work?

The Exsulite™ Thermal Facade Cavity System is recommended in areas with significant variation between internal and external temperatures. If condensation occurs, moisture can efficiently drain from the cavity through the specially designed starter beads and provide airflow throughout the entire cavity.

The cavity separates the cladding material from the timber framing. It protects the timber framing from any occasional leaking by providing a gap allowing water to drain down the back of the cladding and out through the base of the cavity. Any remaining moisture within the cavity is able to dry through ventilation provided along the bottom edge of the cavity.

The four key elements of a cavity & moisture management system.

- **Deflection:** The first line of defence is a well designed and constructed cladding system to 'deflect' the water away.
- **Drainage:** A cavity provides a second line of defence by 'draining' away water that may leak behind the cladding.
- **Drying:** By ventilating the cavity, any moisture that has not drained away is removed by 'drying'.
- **Durability:** Materials for wall and cavity construction must be sufficiently 'durable' to resist decay for a period that will allow time for a leak to be discovered and repaired.

## Dulux® Exsulite™ Trained Installer Network

An Exsulite™ Certificate of Installation from a registered Exsulite™ Installer provides peace of mind that "as built" meets Design Specification. All Exsulite™ Trained Installers can be verified by their Exsulite™ Identification Card and Registration number. Project QA Process is a critical element of the Exsulite™ Total System approach and the Exsulite™ Installer Network ensures Total Facade System compliance - From Start to Finish.

- Installer Training and Ongoing Development
- Registration and Verification ID
- Certificate of Installation checklist and QA sign-off

The image displays several overlapping forms from the Exsulite™ system. The primary form is the 'Certificate of Installation', which includes sections for Project Information, Exsulite Trained Installer details, Exsulite Trained Installer details, Site Access and Scaffolding Checklist, and an Installer Checklist. The forms are designed with checkboxes for 'Yes' and 'No' and a column for 'Comments/By Whom'. The forms are presented in a layered, slightly offset manner to show multiple copies.

# Exsulite™ Thermal Facade System Specifications

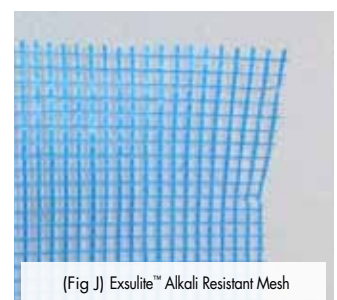
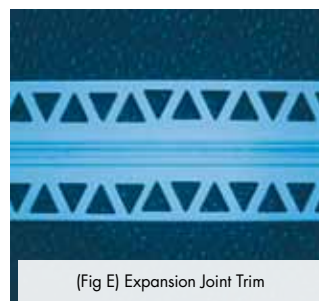
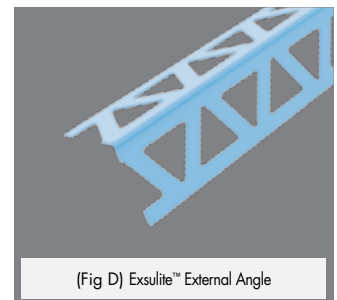
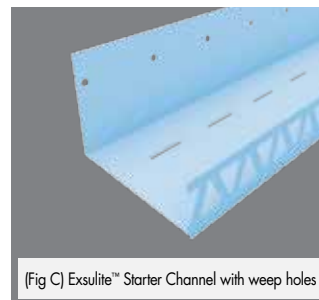
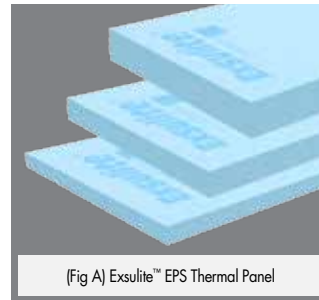
## Exsulite™ System Components

- Exsulite™ EPS Thermal Panel (refer to Fig A)
- Exsulite™ – Breathable wall wrap (refer to Fig B)
- Exsulite™ Cavity Spacer (refer to Fig B)
- Exsulite™ – Starter Channel and Corner Angles  
These are UV Stabilized and protect all exposed EPS surfaces. They consist of:
  - Exsulite™ Starter Channel (refer to Fig C)
  - External Angles (refer to Fig D)
  - Expansion Joint Trim (refer to Fig E)
- Expanding Foam Adhesive (refer to Fig F)
- Selleys Liquid Nails Fast
- Flexible (approved) paintable PU sealant
- Exsulite™ Washers – 40mm diameter (refer to Fig G)
- Exsulite™ Class (3) screws, 10 gauge screws should always be long enough to fix into the stud by a minimum of 25mm (refer to Table Three) (refer to Fig H)
- 40mm x 2.5mm hot dipped galvanized steel flat head nails to timber frame or construction adhesive for temporary fixing to building wrap fixed over timber or steel frame
- Flashing tape – for use around window and door joinery (to be installed by the installer during installation) (refer to Fig I)
- Basecoats: Exsulite™ P400 Renderwall
- Alkali Resistant Mesh: Exsulite™ Mesh 165gsm/m<sup>2</sup> (5mmx5mm) (refer to Fig J)
- Texture Coats: Dulux® AcraTex® acrylic texture coating system(s).
- Finishing coats: Dulux® AcraTex® flexible weatherproofing texture systems with protective membrane topcoat.

## WINDOW REVEAL DETAILS

TABLE ONE

| Exsulite™ EPS Panel (mm) | Exsulite™ Cavity Spacer (mm) | Window Reveal (mm) |
|--------------------------|------------------------------|--------------------|
| 60                       | 15                           | 50                 |
| 75                       | 25                           | 65                 |
| 100                      | 25                           | 90                 |





# Exsulite™ Thermal Facade System Specifications



## Before Commencement

- Read the Exsulite™ Installation Manual & Exsulite™ Construction Drawings to familiarize yourself with the relevant details relevant to the project and system components required to install the Exsulite™ system.
- Check that the frame is plum & level with a tolerance  $\pm 5$ mm across 3 meter span both vertically & horizontally.
- Check that the frame conforms to the relevant BCA and Australian Standards as well as local standards for structural requirements including wind loadings and bracing (refer to Table Two).
- Check with plumbers and electricians and back block for any wall mounted accessories as it is imperative that this is done prior to cladding.
- Check that all flashings have been completed by the builder or roof plumber to the requirements of the BCA prior to commencement.
- Check that correct window reveal sizes are fitted and the outside of the reveal is flush with the external frame and 10mm proud on the inside, allowing for the internal plasterboard. Make sure that they have been fixed off correctly, level and plumb.

## BUILDING WIND ZONES (NON-CYCLONIC REGIONS)

**TABLE TWO**

| Wind Classification | Minimum Exsulite™ Thermal Panel Thickness (mm) | Ultimate Wind Speed (mls) |
|---------------------|--|---------------------------|
| Type B – N2/N3      | 50   | 1.485 kpa                 |
| Type C – N4         | 60   | 3.289 kpa                 |
| Type D – N5         | 75   | 4.719 kpa                 |



# Exsulite™ Thermal Facade System Installation Guide

## Step One – Cavity System

It is the responsibility of the contractor to ensure that the substrate/framework to which the Exsulite™ specified system is to be installed is properly prepared in strict accordance with the relevant Australian Standards & Building Codes of Australia requirements. Ensure that all preparation works prior to commencement of system installation have been completed by the relevant trades and that the substrate (frame) is in readiness for installation works to commence, including installation of flashings to brickwork, windows and door openings.

## Step Two

Install the Exsulite™ Breathable Wall Wrap to properly prepared timber or steel frame. They must fit the appropriate head flashings over the top of the building wrap then a compatible building wrap tape should be used to run over the junction of the head flashing and building wrap. If head flashings cannot be used, an acceptable alternative flashing must be provided. Followed by installation of the Exsulite™ Cavity Spacer, fixed to each stud.

## Step Three

Flexible sill and jamb flashing tapes complying with Australian Standards must be used around all penetrations.

## Step Four

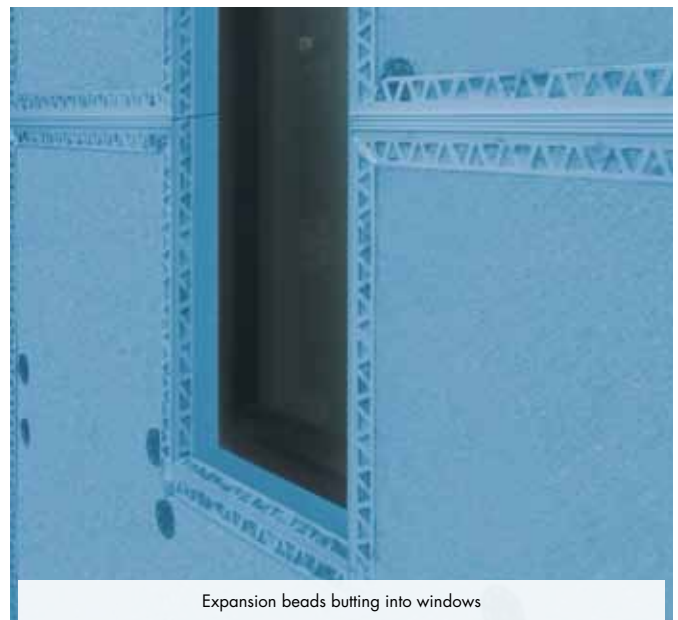
The Exsulite™ channel is to be installed as specified in the Exsulite™ Construction Drawings relevant to the project requirements. Refer to the Exsulite™ construction drawings for details

## Step Five

Chalk a line around the base of the building at the lowest point the cladding is to be fixed. Fit the Exsulite™ Starter Channel using 30mm x 2.0mm stainless steel clouts. Once tacked into position the screwing of the Exsulite™ Thermal Panels will secure the Starter Channel into its finishing position at the bottom. The Channel must be butt joined and sealed on the junction with a marine grade sealant or similar.

## Step Six

When installing above a deck, flat or pitched roof, leave a gap between the bottom of the Exsulite™ Starter Channel and the finished level. Refer to the Exsulite™ construction drawings for details. Be sure that the window reveals are sitting 25mm proud of the studs, glue or nail the 40mm x 25mm Spacers onto all studs and around all windows and doors and ensure that they are finishing hard down on the edge of the Exsulite™ Starter Channel. Finally, ensure that the deck is sloping away from the wall cladding





# Exsulite™ Thermal Facade System Installation Guide

## Step Seven

Once fully battened check with a straight edge to ensure the wall is level to within a 3mm tolerance. You are now ready to commence cladding. Continue to step eight.

## Step Eight

Measure and cut Exsulite™ Thermal Panels using a masonry diamond blade in a standard power saw or a hot knife.

## Step Nine

On a single story frame measure 1210mm up from the rebate at both ends of the wall and flick a chalk line. Starting from the corner fit your sheet horizontally and work to your starting line.

On a double story frame, first of all complete Step Five by measuring 1210mm up from the rebate and fixing off the bottom row of panels.

Then measure up from the top of the flooring 1200mm from both ends and chalk a line, then fix the first run of panels along this line, work upwards to the soffits. Then, from the bottom of the first run of sheets, measure down 1205mm and chalk a line and fix that run of sheets to the line, leaving a 5mm gap in between the two runs of sheets for expansion. Then work down towards the bottom row of sheets that have been fitted to the Starter Channel.

## Step Ten

Once the first run of panels have been fitted, start the second run by measuring down from the soffits 1200mm and flicking another chalk line, then fix the top row of panels.

## Step Eleven

Once the two runs of sheets have been fixed you will be required to cut a piece to fit in between the panels and complete the cladding side of your first wall. Using an approved construction foam adhesive, spray onto all surfaces where the panel is to be joined.

## Step Twelve

Fixing Exsulite™ washers and screws (refer to Table Three)

- When the panel is laid horizontally fix screw and washer 50mm from the top and 50mm from the bottom edge of the sheet to centre of screw at maximum of 450mm stud spacing.
- One row of fixings through the centre of the sheet at a maximum of 450mm stud spacing.\*
- Two rows of fixings approximately 275mm apart, top and bottom of centre line of fixings.\*
- When fixing the ends, each individual panel must be nogged out and fixed on both sides, the sheets must not be fixed with washers through the join.



Applying Foam Adhesive



Fitted External Bead



External Window Bead



External Door Bead



Expansion Bead over window



Soffit finish



Expansion Joint into Starter Channel



Garage Head

## FIXING COMPONENT DETAILS

TABLE THREE

| Wind Class | Description  |
|------------|--|
| N4         | Within 1200mm from corners of buildings, use 6 screws/stud (220mm cts) |
| N5         | Within 1200mm from corners of buildings, use 8 screws/stud (157mm cts) |

# Exsulite™ Thermal Facade System Installation Guide

## Step Thirteen

Once the wall has been fixed off spray adhesive foam onto all joints. Once dry, cut off excess with a knife and then sand all joins flush.

## Step Fourteen

Expansion joints should be placed at no more than 6 metres on horizontal walls and no more than 3 metres on the vertical walls (refer to Table Four). It is always recommended that sliding doors have expansion joints above them.

### PLACEMENT OF EXPANSION JOINTS

| TABLE FOUR   |                  |
|--|------------------|
| Placement of Expansion/Control Joints  | Maximum Distance |
| Horizontal wall areas: wall length   | 6 Metres         |
| Vertically: Construction joints between floor levels and gable ends, where the total wall height including gable exceeds maximum distance  | 3 Metres         |
| Scribed control joints: above large window and door openings   |                  |
| <b>NOTE</b><br>Internal Corner: when rendering, mesh up to but not across corner then later 'scribe' a control joint into the render, cutting (nick) the mesh intermittently to relieve the tension within the mesh. Fill with sealant prior to texture coating. |                  |

## Step Fifteen

Curved walls with a radius greater than 2–4 metres can be fitted with 40mm and 60mm Exsulite™ Thermal Panel (refer to Table Five). Where a tighter radius is required use multiple layers by laminating 20mm thick Exsulite™ Thermal Panel by using an approved construction foam adhesive and fix by using off set joints.

### CURVED WALL SPECIFICATIONS

| TABLE FIVE    |         |
|---------------|---------|
| EPS Thickness | Radius  |
| 40mm          | >2400mm |
| 60mm          | >2400mm |
| 75mm          | >4000mm |



# Exsulite™ Thermal Facade System Installation Guide

## Step Sixteen

Once all of the wall area has been clad, it is important to go around with a straight edge and make sure that all external corners are plumb and true. Rasp off using sandpaper to make sure that all edges are perfectly straight, ready for beading.

## Step Seventeen

Underneath all window sills, leave a 12mm gap and fit external trims around window. Fill the gap with an approved construction foam adhesive and when dry, cut off flush with the bottom of the window. This will allow adequate fall on the window sills at render stage.

## Starter Channel

The Exsulite™ Starter Channel should be fitted neatly along the bottom of the sheet and cut neatly on a 45 degree angle on all external corners. This is glued on using an approved EPS construction adhesive. Make sure that the bottom bead is gun barrel straight, as this is the finished line.

## External Beads & Angles

Install external bead with Selleys Liquid Nails Fast down the centre of both sides and one run of glue in the junction of the bead. Cut a 45 degree angle on both ends of the bead so it finishes flush with the soffit at the top and flush with the starter bead at the bottom. Once fitted check it using a straight edge for straightness and wipe off excess glue protruding through slots in the bead.

## Expansion Joint Beads

On the horizontal expansion joint line, mark on the foam the top of the bead at both ends and chalk a line through so the bead can be glued on straight. Cut a 45 degree angle to the end of the bead where it is going to join the external beads or Starter Channel. Glue the bead with an approved EPS construction adhesive using a generous amount and wipe away any excess protruding through the slots in the bead (refer to Table Four).

## Completing Work

The Exsulite™ Installation Guide has been developed to ensure you have all the required information to design, plan and install the Exsulite™ Thermal Facade System, prior to the application of AcraTex® high build acrylic texture coatings.

## AcraTex® Acrylic Finishing System

Once you have completed the install checklist, application of the nominated AcraTex® Coating System can commence (refer to AcraTex® specifications on page 11).





# Exsulite™ Thermal Facade System Installation Guide



# Exsulite™ System Specification

## Introduction

Exsulite™ Thermal Facade System by Dulux® AcraTex® is total integrated facade light weight walling system.

Designed to deliver watertight external building envelope, cavity moisture management and providing high thermal R values.

The system comprises expanded polystyrene thermal panels, wall wrap, cavity spacers, fixing components, Exsulite™ P400 Basecoat with alkali resistance mesh and AcraTex® finishing weatherproof coating system which is all specified & supplied by Dulux®.

System installation is by a Dulux® trained Installer in accordance with Exsulite™ Thermal Facade System guidelines & procedures manual.

Exsulite™ Thermal Facade System by Dulux® AcraTex® is a "cavity drainage" system for new residential and low rise commercial construction. It can also be used as a facade remedial system for rectification and rejuvenation of aged facades when used as a direct fix system.

Exsulite™ Thermal Facade System is CodeMark™ certified and compliance to the Building Code of Australia (BCA) full range of performance criteria in including structural stability, wind resistance, durability, thermal resistance, weatherproofing and dampness and can be used in Class 1 and 10 building applications fixed to steel, timber and masonry surfaces. System installation and job quality control documentation is only done by a Dulux® trained Exsulite™ & registered installers ensuring all jobs are installed in accordance with BCA & Exsulite™ Thermal Facade system specifications

Exsulite™ has been tested for heat intensity and ember attack of bushfires in relation to AS 3959-2009 Construction of Buildings in Bushfire prone areas. Exsulite™ Thermal Facade System has passed AS 1530.8.1 and is approved (BAL 29) for use in bushfire prone areas. Where a Higher rating than BAL 29 is required contact a Dulux® AcraTex® representative.

Users of this specification will satisfy themselves of the suitability of this specification / advice, relevant to their specific project requirements. In all cases Building System Design must conform to relevant Local / Building Codes or regulations.

## Variation and Modifications to the Exsulite™ Thermal Facade System

Dulux® reserves the right to alter the base system (as defines herein) from time to time in an effort to improve the overall quality and performance of the cladding system. Where such variations occur Dulux® will keep the Installer advised in writing before these variations come into effect. Additionally, the yearly training will identify and communicate all systems variations/modifications which the Installer will need to adopt.

Exsulite™ Thermal Facade Panel ('M' grade) is made to Australian Standard AS1366.3 – 1992. Exsulite™ Thermal Panel is treated to defend against vermin and insects and has a flame retardant additive to inhibit accidental ignition from a small flame source.

Exsulite™ Thermal Panel is produced from expanded polystyrene (EPS), a lightweight cladding system that displays self-insulative properties and once installed & coated with AcraTex® finishing coatings creates a weatherproof barrier that will enhance the energy efficiency of the building.

## Substrate Preparation

Check that the frame is plum & level with a tolerance +/- 5mm across 3 meter span both vertically & horizontally.

Exsulite™ Thermal Panel will be installed and fixed in accordance with Exsulite™ Installation manual specification & installation procedures,. Only Exsulite™ components & AcraTex® finishing coatings supplied by Dulux® can be used and cannot be substituted by third party alternatives.

Once the Exsulite™ Thermal Facade Panel has been in installed in accordance with the Installation manual specification & installation procedures and Exsulite™ job Certificate of Installation has been completed and signed off by an Exsulite™ Trained Installer only then can the AcraTex® specified finishing coating system application can commence.

Note: Exsulite™ Raw sheet surface will NOT be left exposed to degrade causing the surface to discolour, harden or change surface properties. Remove any surface contaminants such as oil, grease or dirt: Wash and/or Broom / Scrape down to remove all contaminants and friable surface materials.

## Expansion Joints

Good building practice provides for expansion joints at (max.) 3m height & 6m wide intervals and at all building weak points or where potential cracking may occur e.g. in line with openings (window / doors), horizontally between floor levels, and at all interfaces of different building construction materials and/or as defined by the responsible Building Engineer. The placement and correct installation of control joints is the responsibility of the Building Engineer / Builder relative to the construction design.

## Caution on Dark Colours

Avoid the finishing of EIFS Claddings with dark colours - these will raise the surface temperature of the EPS and damage the cladding system. Use colours with a LRV greater than 35 or consult Dulux® on the potential to use InfraCOOL Heat Reflective Coatings that will keep the surface cooler.

## Caulking & Sealant

Recommendation is to have all the joints are sealed/ filled after the application of the texture coating to avoid potential cracking & delamination of the texture coating from the sealant. Dulux® recommends the use of Selleys® Flexiseal™ or "3 in 1" Sealant or as approved.



**TABLE SIX**

| Basecoat & Reinforcement Mesh – Surface Levelling  | Data Sheet | Base Layer  | Min. Cover                                    |
|--|------------|---|---|
| <p><b>P400 renderwall base coat with Exsulite™ reinforcement mesh</b></p> <p>In a clean 1.5 litre pail add 3.5-4.0 litres of clean water slowly add Renderwall P400 while stirring till a cream trowelable paste is formed.</p> <p>Apply the basecoat layer of Renderwall P400 by stainless steel trowel to fully cover the EPS surface with a 2-3 mm (min.) cover. Whilst wet embed the Exsulite™ reinforcing mesh into the P400 Renderwall and overlapped all edges by a minimum of 100mm.</p> <p>Note: The mesh is not to be pushed through the wet render onto the face of the Exsulite™ Panel, nor is to be applied direct to the Exsulite™ Panel</p> | DA0443     | <p>Renderwall P400 (1.7kg/m<sup>2</sup>/mm) Assuming no loss</p> <p>+</p> <p>Alkali resistant Fibre Glass mesh 165 gm weight (minimum.) 5 x 5 mm aperture</p> | 2-3mm wet on wet                              |
| <p><b>Dulux® AcraTex® Renderwall P400 Finishing coat</b></p> <p>Apply finishing coat of P400 Renderwall basecoat mixture to completely cover and encapsulate the mesh with a minimum of 2mm cover. Finish the P400 Renderwall base coat by lightly scratching the surface to provide a surface "key" for subsequent levelling or texture coats.</p> <p>Note: A minimum 3.5mm cover of P400 Renderwall to the Exsulite™ Panel once dried</p>  | Data Sheet | Renderwall P400   | Min. Cover                                    |
|  | DA0443     | P400 Renderwall (1.7kg/m <sup>2</sup> /mm) Assuming no loss   | 2 mm<br>16 hours                              |
| <p><b>Where additional impact resistance &amp; optional levelling coat is required</b></p> <p>Where additional impact resistance is required apply and embed an additional Exsulite™ reinforcement mesh layer coat of P400 Renderwall as specified or directed</p> <p>Add Renderwall P400 to fresh water to form trowelable paste. Apply by hawk and trowel or render pump over the Base Coat application. Screed and float level finish by polystyrene or wood float to a suitable level finish for subsequent Texture Coating</p>  | Data Sheet | Levelling Layer   | Min. Cover                                    |
|  | DA0443     | Renderwall P400   | 2-3mm<br>16 hours                             |
| <b>TEXTURE COATING SYSTEM APPLICATION</b>  | Data Sheet | Application rate  | Recoat  |
| <p><b>Optional primer coat</b></p> <p><b>Dulux® AcraTex® – Green Render Sealer L/Shade 194-20802</b></p> <p>The use of Green Render Sealer consolidates and conditions the surface and enhances subsequent coating application and total system durability. Apply by conventional roller method evenly over the surface.</p> <p>(Note: Is to be uses when the texture finishing coat is to be applied over the P400 Render less than 5 days.</p>   | DA1582     | 8.0 sq m per litre  | 4 hours                                       |
| <p><b>Texture coat</b></p> <p>NB: Texture colour must have a LRV greater than 35</p> <p><b>Dulux® AcraTex® – Coventry Coarse L/Shade 194-85753</b></p> <p>Apply with Hawk &amp; Trowel evenly over surface to the thickness of the largest particles. Follow up with a light 'floating' process to level out the product using red plastic trowel/float.</p>   | DA1065     | 0.8 sq m <sup>2</sup> per litre   | 16 hours                                      |
| <p><b>High Performance Membrane FINISHING COATS</b></p> <p>NB: Acraskin colour must have a LRV greater than 35</p> <p><b>Dulux® AcraTex® Acrashield L/Shade 194-85675 (Pastel)</b></p> <p>Apply Acrashield with a medium nap roller over the surface ensuring a wet edge is maintained over the application area. Whilst one coat over EPS Cladding may provide adequate protection and resistance to the elements, Dulux® recommends 2 coats applications for even coverage to minimising "cutting in" and "lap mark" effects. Where 2 coats are applied, dilute the first coat with 10% water.</p>   | DA1600     | 6 m <sup>2</sup> per Litre per Coat   | Protect from frost and rain in first 16 hours |

Where an alternative Exsulite™ system specification is required this must be pre-sanctioned by the authorised Exsulite™ Technical Engineers not your Dulux® Representative. The amended 'alternative project specific' Exsulite™ System Specification must be secured prior to job commencement. Installations of any non standard or non approved Dulux® Exsulite™ system will be void of system warranty or claims.

## Important Notes

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Practical spreading rates will vary from quoted theoretical figures depending on substrate porosity, surface roughness, overspray losses, application methods and environmental conditions (e.g. wind).

Protect each application from rain and frost for 24 hours when apply at the recommended spread rate.

Dry times apply to a single coat at recommended spread rate and at 25°C and 50% Relative Humidity

Allow longer times under cool, moist, or still conditions and or when applied at high film builds. Do not apply paint if Relative Humidity is above 85% or temperature is within 3°C of Dew Point.

Do not apply if the surface temperature is greater than 40°C or below 10°C, or likely to fall below 10°C during the application or drying period.

When using Bright Reds, Oranges, Blues and Yellows or where very light colours are applied over highly contrasting colours an extra coat maybe required.

At Commencement of coating system application to the substrate it shall be deemed that the Applicator has certified that the surface which it is to be applied to is fit receive the specified coating(s) system.

Consult Dulux® on the potential to use InfraCOOL Heat Reflective Coatings that will keep the surface cooler.

## Glancing Light

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Joints and panel deformation may be clearly evident under glancing light, casting visible shadows of the minute and uneven projections of the joints. Glancing light is light that is nearly parallel to the surface of the wall and casts visible shadows and uneven projections of the joints. Just like rendered masonry/ Jointed system any uneven projections will be highlighted and as such are outside the control / scope of this specification.

When using this specification, the Installer shall maintain records in accordance with the Exsulite™ Installer Agreement & Certificate Of Installation and any others records, as required by the Project Manager. These records shall be made available for inspection at any time by the Project Manager or Dulux® AcraTex® authorised representative and shall be submitted to Dulux® AcraTex® upon completion of work. Where an alternative or project specific Exsulite™ system specification is required this must be pre-sanctioned by the authorised Exsulite™ Technical Engineers not your Dulux® Representative. The amended 'alternative project specific' Exsulite™ System Specification must be secured prior to job commencement. Installations of any non standard or approved Dulux® Exsulite™ system will be void of system warranty or claims.

# Dulux® Acrylic Texture Coating Care & Maintenance

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- 1 The exterior texture coatings on your home should be cleaned on a regular basis. This will help maintain your homes aesthetic appearance and preserve your AcraTex® Texture coating system. Cleaning once every year will remove light soil as well as grime and airborne pollutants.
- 2 The exterior can be cleaned with a low-pressure water blast (less than 450psi) using a fanjet of cold water at a 45 degree angle from the wall (not perpendicular). The fan of the water blaster should be kept a minimum of 30cm from the surface of the AcraTex® Texture coating in order to avoid damage.
- 3 Localised grime or ingrained dirt should be removed by cleaning with a scrubbing brush along with a solution of detergent and warm water. Under no circumstances should you attempt to remove heavy staining using a high-pressure water blaster.
- 4 Check for cracked, loose or missing sealant as part of your regular maintenance inspections. You will find sealant in most areas where different substrates meet and above door openings & windows, pipes, where walls meet the soffit line and where electrical fittings and handrails have been attached to walls. Control joints should also be inspected as part of the maintenance inspections. All deteriorated or damaged sealant should be removed and replaced as soon as it appears. We recommend that a paintable polyurethane sealant be used.
- 5 It is important to monitor areas that are heavily exposed to the elements such as parapets, and balcony handrail tops. Due to the minimal slope on these areas will tend to hold dirt & grime which can potentially lead to mould over time if not regularly washed. These building sections should also be checked for any movement over time due to the extremes of thermal movement it is critical that they are inspected and maintained.
- 6 Any damage to the texture coating needs to be recoated from edge to edge of the effected wall area to ensure texture & colour consistency. If accidental damage do occur please feel free to contact your local Dulux® representative or phone Dulux® Customer Service on "1300662841" and they will provide the support or technical expertise required to help solve the problem.

Visual cracks may indicate underlying structural problems; a professional should always inspect them. Temporary repairs can be made to cracks by filling them with polyurethane paintable sealant until the inspection has been completed and permanent repairs under taken.
- 7 During your inspections don't forget to check areas that are cold and dark, such as behind heavy foliage. Dirt provides the perfect nutrient for mould and algae growth. The tiny roots that these organisms use to cling to your walls will cause your texture coating to deteriorate very quickly if not regularly cleaned.
- 8 Recoating to the texture coating is recommended over a 7-10 year period to rejuvenate your homes appearance. This can be done by using 969 AcraTex® Acraskin protective membranes coating to a selected Dulux® colour which will protect your house from air pollutants, water ingress, and dirt accumulation providing a low maintenance surface on completion.
- 9 Advice and product availability can be obtained from nearest Dulux® Trade Centre or phone Dulux® customer service on "1300662841" or visit our website [www.dulux.com.au](http://www.dulux.com.au).



For further information go to: [www.exsulte.com.au](http://www.exsulte.com.au)  
Customer Service: 1300 662 841  
Dulux AcraTex, 1 Jeanes Street, Beverley SA 5009

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